Contents

(Figures in bold type denote number of issue)

ARTICLES

BROWN, R. J., BARRY, T. L., BRANNEY, M. J., PRINGLE, M. S. & BRYAN, S. E.
The Quaternary pyroclastic succession of southeast Tenerife, Canary Islands: explosive eruptions, related caldera subsidence, and sector collapse, **3**, 265

BÜCHL, A. & GIER, S.
Petrogenesis and alteration of tuffs associated with continental flood basalts from Putorana, northern Siberia, **6**, 649

CALNER, M. & JEPPSSON, L.
Carbonate platform evolution and conodont stratigraphy during the middle Silurian Mulde Event, Gotland, Sweden, **2**, 173

CHEN, B. & ZHAI, M.
Geochemistry of late Mesozoic lamprophyre dykes from the Taihang Mountains, north China, and implications for the sub-continental lithospheric mantle, **1**, 87

CHEW, D. M.
Structural and stratigraphic relationships across the continuation of the Highland Boundary Fault in western Ireland, **1**, 73

CLEGG, B. & ENGLAND, R.
Velocity structure of the UK continental shelf from a compilation of wide-angle and refraction data, **4**, 453

CUNNINGHAM, M. J. M., DENSMORE, A. L., ALLEN, P. A., PHILLIPS, W. E. A., BENNETT, S. D., GALLAGHER, K. & CARTER, A.
Evidence for post-early Eocene tectonic activity in southeastern Ireland, **2**, 101

DICKIN, A. P. & McNUTT, R. H.
An application of Nd isotope mapping in structural geology: delineating an allochthonous Grenvillian terrane at North Bay, Ontario, **5**, 539

FRANK, T. D., KAH, L. C. & LYONS, T. W.
Changes in organic matter production and accumulation as a mechanism for isotopic evolution in the Mesoproterozoic ocean, **4**, 397

GRENNE, T., PEDERSEN, R. B., BJERKGÅRD, T., BRAATHEN, A., SELASSIE, M. G. & WORKU, T.
Neoproterozoic evolution of Western Ethiopia: igneous geochemistry, isotope systematics and U–Pb ages, **4**, 373

JACKSON, D. E. & LENZ, A. C.
Taxonomic and biostratigraphical significance of the Tremadoc graptolite fauna from northern Yukon Territory, Canada, **2**, 131

KAYMAKCI, N., DUERMEIJER, C. E., LANGEREIS, C., WHITE, S. H. & VAN DIJK, P. M.
Palaeomagnetic evolution of the Çankırı Basin (central Anatolia, Turkey): implications for oroclinal bending due to indentation, **3**, 343

KOUKOUVELAS, I. K. & KOKKALAS, S.
Emplacement of the Miocene west Naxos pluton (Aegean Sea, Greece): a structural study, **1**, 45

LENAZ, D., KAMENETSKY, V. S. & PRINCIVALLE, F.
Cr-spinel supply in the Brkini, Istrian and Krk Island flysch basins (Slovenia, Italy and Croatia), **3**, 335

LESLIE, A. G. & NUTMAN, A. P.
Evidence for Neoproterozoic orogenesis and early high temperature Scandian deformation events in the southern East Greenland Caledonides, **3**, 309

LISLE, R. J.
Dupin's indicatrix: a tool for quantifying periclinal folds on maps, **6**, 721

LOYDELL, D. K., MÄNNIK, P. & NESTOR, V.
Integrated biostratigraphy of the lower Silurian of the Aizpute-41 core, Latvia, **2**, 205

MANGE, M. A., DEWEY, J. F. & WRIGHT, D. F.
Heavy minerals solve structural and stratigraphic problems in Ordovician strata of the western Irish Caledonides, **1**, 25

MEYER, G. B., GRENNE, T. & PEDERSEN, R. B.
Age and tectonic setting of the Nesåa Batholith: implications for Ordovician arc development in the Caledonides of Central Norway, **5**, 573

MEYER-BERTHAUD, B., FAIRON-DEMARET, M., STEEMANS, P., TALENT, J. & GERRIENNE, P.
The plant *Leclercqia* (Lycopsida) in Gondwana: implications for reconstructing Middle Devonian palaeogeography, **2**, 119

MEZGER, J. E. & PASSCHIER, C. W.
Polymetamorphism and ductile deformation of staurolite–cordierite schist of the Bossòst dome: indication for Variscan extension in the Axial Zone of the central Pyrenees, **5**, 595

MOGHAZI, A.-K. M.
Geochemistry of a Tertiary continental basalt suite, Red Sea coastal plain, Egypt: petrogenesis and characteristics of the mantle source region, **1**, 11

NIX, T. & FEIST-BURKHARDT, S.
New methods applied to the microstructure analysis of Messel oil shale: confocal laser scanning microscopy (CLSM) and environmental scanning electron microscopy (ESEM), **4**, 469

NOÈ, L. F., LISTON, J. & EVANS, M.
The first relatively complete exoccipital-opisthotic from the braincase of the Callovian pliosaur, *Liopleurodon*, **4**, 479

PAL, T., CHAKRABORTY, P. P., GUPTA, T. D. & SINGH, C. D.
Geodynamic evolution of the outer-arc–forearc belt in the Andaman Islands, the central part of the Burma–Java subduction complex, **3**, 289

PERRICHOT, V., AZAR, D., NERAUDEAU, D. & NEL, A.
New Psocoptera in the Early Cretaceous amber of SW France and Lebanon (Insecta: Psocoptera: Trogiomorpha), **6**, 669

POWER, M. R., PIRRIE, D. & ANDERSEN, J. C. Ø.
Diversity of platinum-group element mineralization styles in the North Atlantic Igneous Province: new evidence from Rum, UK, **5**, 499

PRICE, G. D.
New constraints upon isotope variation during the early Cretaceous (Barremian–Cenomanian) from the Pacific Ocean, **5**, 513

QIU NANSHENG
Geothermal regime in the Qaidam basin, northeast Qinghai–Tibet Plateau, **6**, 707

RING, U., JOHNSON, C., HETZEL, R. & GESSNER, K.
Tectonic denudation of a Late Cretaceous–Tertiary collisional belt: regionally symmetric cooling patterns and their relation to extensional faults in the Anatolide belt of western Turkey, **4**, 421

RING, U., THOMSON, S. N. & BRÖCKER, M.
Fast extension but little exhumation: the Vari detachment in the Cyclades, Greece, **3**, 245

ROBERTS, R. J., TORSVIK, T. H., ANDERSEN, T. B. & REHNSTRÖM, E. F.
The Early Carboniferous Magerøy dykes, northern Norway: palaeomagnetism and palaeogeography, **4**, 443

ROCHER, M., TREMBLAY, A., LAVOIE, D. & CAMPEAU, A.
Brittle fault evolution of the Montréal area (St Lawrence Lowlands, Canada): rift-related structural inheritance and tectonism approached by palaeostress analysis, **2**, 157

SMITH, A., BRADDY, S. J., MARRIOTT, S. B. & BRIGGS, D. E. G.
Arthropod trackways from the Early Devonian of South Wales: a functional analysis of producers and their behaviour, **1**, 63

SONE, M., METCALFE, I. & LEMAN, M. S.
Palaeobiogeographic implications of Middle Permian brachiopods from Johore (Peninsular Malaysia), **5**, 523

SOPER, N. J. & WOODCOCK, N. H.
The lost Lower Old Red Sandstone of England and Wales: a record of post-Iapetan flexure or Early Devonian transtension? **6**, 627

SOTIROPOULOS, S., KAMBERIS, E., TRIANTAPHYLLOU, M. V. & DOUTSOS, T.
Thrust sequences in the central part of the External Hellenides, **6**, 661

SOTO, R., STORTI, F., CASAS, A. M. & FACCENNA, C.
Influence of along-strike pre-orogenic sedimentary tapering on the internal architecture of experimental thrust wedges, **3**, 253

TINDALL, S. E. & DAVIS, G. H.
Joint spacing and distribution in deformation band shear zones, **1**, 1

TOLMACHEVA, T., EGERQUIST, E., MEIDLA, T., TINN, O. & HOLMER, L.
Faunal composition and dynamics in unconsolidated sediments: a case study from the Middle Ordovician of the East Baltic, **1**, 31

VIZAN, H., CARNEY, J. N., TURNER, P., IXER, R. A., TOMASSO, M., MULLEN, R. P. & CLARKE, P.
Late Neoproterozoic to Early Palaeozoic palaeogeography of Avalonia: some palaeomagnetic constraints from Nuneaton, central England, **6**, 685

WILLIAMS, M., DAVIES, J. R., WATERS, R. A., RUSHTON, A. W. A. & WILBY, P. R.
Stratigraphical and palaeoecological importance of Caradoc (Upper Ordovician) graptolites from the Cardigan area, southwest Wales, **5**, 549

BOOK REVIEWS

Accretion of Extraterrestrial Matter Throughout Earth's History, **4**, 494

Applied Mineral Inventory Estimation, **1**, 96

Archaeomineralogy, **3**, 366

Auvergne, **3**, 369

Brachiopods Past and Present, **2**, 232

The Cambridge Encyclopedia of Meteorites, **3**, 360

Canary Islands, **3**, 370

Climate Change. A Multidisciplinary Approach, **4**, 495

Coal Geology, **4**, 494

Coast and Country Geology Walks in and around Dorset (including excursions within the World Heritage Site), **4**, 491

The Compact NASA Atlas of the Solar System, **1**, 97

Crustal Heat Flow. A Guide to Measurement and Modelling, **3**, 365

Deformation Mechanisms, Rheology and Tectonics: Current Status and Future Perspectives, **4**, 492

Dynamical Paleoclimatology. Generalized Theory of Global Climate Change, **6**, 734

Early Life. Evolution on the Precambrian Earth, 2nd ed., **6**, 730

The Earth Inside and Out: Some Major Contributions to Geology in the Twentieth Century, **4**, 488

Earth Magnetism. A Guided Tour through Magnetic Fields, **2**, 241

Earth's Climate. Past and Future, **4**, 495

European Margin Sediment Dynamics. Side-Scan Sonar and Seismic Images, **3**, 367

Evolutionary Biology and Ecology of Ostracoda, **2**, 239

Evolutionary Biology of the Bivalvia, **3**, 361

Evolutionary Patterns. Growth, Form, and Tempo in the Fossil Record, **3**, 364

The Evolution of Plants, **1**, 95

Extensional Tectonics: Faulting and Related Processes, **4**, 489
Extensional Tectonics: Regional-Scale Processes, **4**, 489
The Fate of the Mammoth. Fossils, Myth, and History, **2**, 237
Fields of Battle. Terrain in Military History, **3**, 357
Flood and Megaflood Deposits: Recent and Ancient Examples, **1**, 97
Fossils of the Chalk, 2nd ed., **1**, 98
Foundations of Engineering Geology, 2nd ed., **2**, 232
From Greenhouse to Icehouse. The Marine Eocene–Oligocene Transition, **6**, 731
Gaining Ground. The Origin and Evolution of Tetrapods, **4**, 487
Geodynamics of the Lithosphere. An Introduction, **2**, 231
Geological and Biological Effects of Impact Events, **3**, 363
Geology and Geophysics of an Arc–Continent Collision, Taiwan, **6**, 729
Geology of Egypt and Libya, **3**, 362
The Geology of Scotland, 4th ed., **6**, 732
The Geology of Spain, **5**, 613
Greenland from Archaean to Quaternary. Descriptive Text to the Geological Map of Greenland 1:2 500 000, **5**, 615
The History and Sedimentology of Ancient Reef Systems, **6**, 734
Hubbert's Peak. The Impending World Oil Shortage, **2**, 236
Igneous Rocks. A Classification and Glossary of Terms, 2nd ed., **3**, 367
The Igneous Rocks of Greece. The Anatomy of an Orogen, **3**, 357
The Interrelationships and Evolution of Basal Theropod Dinosaurs, **6**, 729
An Introduction to Geophysical Exploration, 3rd ed., **3**, 366
An Introduction to Seismology, Earthquakes, and Earth Structure, **6**, 733
Introduction to the Study of Dinosaurs, **3**, 361
Islands of the Arctic, **5**, 622
Italian Volcanoes, **5**, 622
La Catastrophe. Mount Pelée and the Destruction of Saint-Pierre, Martinique, **5**, 618
The Later Proterozoic Torridonian Rocks of Scotland: Their Sedimentology, Geochemistry and Origin, **3**, 358
The Lewisian Geology of Gairloch, NW Scotland, **5**, 614
Life and Environments in Purbeck Times, **5**, 619
The Life of Frank Coles Phillips (1902–1982) and the Structural Geology of the Moine Petrofabric Controversy, **5**, 617
Life, Temperature and the Earth. The Self-Organizing Biosphere, **3**, 363
The Little Book of Earthquakes and Volcanoes, **3**, 359
The Little Book of Planet Earth, **3**, 359
The Mechanics of Earthquakes and Faulting, 2nd ed., **1**, 95
Mesozoic and Tertiary Palaeobotany of Great Britain, **1**, 98
Meteorites. Their Impact on Science and History, **2**, 233
Meteors in the Earth's Atmosphere. Meteoroids and Cosmic Dust and their Interactions with the Earth's Upper Atmosphere, **2**, 234
The Millennium Atlas: Petroleum Geology of the Central and Northern North Sea, **4**, 487
Monitoring the Earth. Physical Geology in Action, **2**, 239
Morphology, Shape and Phylogeny, **3**, 365
Natural Hazards and Environmental Change, **2**, 238
New Perspectives on the Old Red Sandstone, **2**, 235
Noble Gas Geochemistry, 2nd ed., **5**, 616

Ore Deposits and Mantle Plumes, **3**, 369
Orogenic Processes: Quantification and Modelling in the Variscan Belt, **4**, 491
Palaeobiogeography and Biodiversity Change: the Ordovician and Mesozoic–Cenozoic Radiations, **5**, 620
Palaeomagnetic Principles and Practice, **3**, 368
Palaeozoic Amalgamation of Central Europe, **4**, 493
Palaeozoic and Mesozoic Tectonic Evolution of Central and Eastern Asia: From Continental Assembly to Intracontinental Deformation, **6**, 733
The Pennines and Adjacent Areas, 4th ed., **1**, 96
Petrogenesis of Metamorphic Rocks, 7th ed., **5**, 623
The Petroleum Exploration of Ireland's Offshore Basins, **2**, 236
Phanerozoic Reef Patterns, **2**, 240
Photographic Guide to Minerals of the World, **1**, 97
Plants Invade the Land. Evolutionary & Environmental Perspectives, **4**, 490
Plate Tectonics. An Insider's History of the Modern Theory of the Earth, **5**, 619
Polychaetes, **5**, 617
Predator–Prey Interactions in the Fossil Record, **6**, 727
Principles of Stable Isotope Distribution, **2**, 233
Proceedings of the IV European Coal Conference, September 26–28, 2000, Ustrón, Poland, **4**, 496
Scanning Electron Microscopy and X-Ray Microanalysis, 3rd ed., **6**, 728
Sedimentary Geology. Sedimentary Basins, Depositional Environments, Petroleum Formation, **5**, 621
Seismic Ray Theory, **4**, 493
Sheet Descriptions of the British Geological Survey, **2**, 231
Sheet Explanations of the British Geological Survey, **2**, 231
Skeletal Function and Form. Mechanobiology of Skeletal Development, Aging and Regeneration, **2**, 240
Stratigraphical Procedure, **3**, 360
Strunz Mineralogical Tables. Chemical Structural Mineral Classification System, 9th ed., **3**, 368
Studies in Palaeozoic Palaeontology and Biostratigraphy in Honour of Charles Hepworth Holland, **3**, 358
The Tectonic and Climatic Evolution of the Arabian Sea Region, **6**, 731
Trilobites of New York. An Illustrated Guide, **2**, 234
Variscan–Appalachian Dynamics: The Building of the Late Paleozoic Basement, **6**, 727
When Life Nearly Died. The Greatest Mass Extinction of All Time, **5**, 613
World Energy Resources, **2**, 241

PUBLICATIONS RECEIVED

List appear beginning pages **1**, 99; **2**, 243; **3**, 371; **4**, 497; **5**, 625; **6**, 737